

**WHAT IS CLAIMED IS:**

1. A photoelectric conversion device comprising:
  - an organic resin substrate having a front surface and a rear surface;
  - a plurality of series connected photovoltaic elements formed over said organic resin substrate, each of said photovoltaic elements comprising:
    - a first electrode formed over the front surface of said organic resin substrate;
    - a photoelectric conversion semiconductor layer provided over said first electrode; and
    - a second electrode formed over said photoelectric conversion semiconductor layer;
  - an output terminal provided on the rear surface of said organic resin substrate; and
  - a conductor connecting said output terminal with the second electrode of one of the photovoltaic elements,wherein said conductor extends on one side edge of the organic resin substrate.
2. The photoelectric conversion device of claim 1 wherein said substrate is flexible.
3. The photoelectric conversion device of claim 1 wherein said photoelectric conversion semiconductor layer has a PIN junction.
4. A photoelectric conversion device comprising:
  - an organic resin substrate having a front surface and a rear surface;
  - a first electrode formed over said front surface;
  - a photoelectric conversion semiconductor layer provided over said first electrode;
  - a second electrode formed over said photoelectric conversion semiconductor layer;
  - an output terminal provided on the rear surface of said substrate; and

a conductive layer formed on said second electrode and extending beside a side edge of the substrate to contact said output terminal, thereby, electrically connecting said output terminal with said second electrode.

5. The device of claim 4 wherein said organic resin substrate is flexible.

6. The photoelectric conversion device of claim 4 wherein said photoelectric conversion semiconductor layer has a PIN junction.

7. A photoelectric conversion device comprising:  
an organic resin substrate having a front surface and a rear surface;  
a first conductive film formed over the front surface of said substrate;  
a photoelectric conversion layer formed over said first conductive film;  
a first groove formed through said photoelectric conversion layer and said first conductive film in order to electrically divide said conductive film and said photoelectric conversion layer;  
a first insulating strip filling said first groove;  
an opening formed through said photoelectric conversion layer and reaching to said first conductive film;  
a second conductive film formed on said photoelectric conversion layer and covering said first insulating strip;  
a conductive material filled in said opening to connect said first conductive film and said second conductive film;  
a second groove formed through said second conductive film in order to electrically divide said second conductive film, said opening being located between said first groove and said second groove;  
an output terminal provided on the rear surface of said substrate; and  
a conductor connecting said output terminal and said second conductive film,  
wherein said conductor is connected to said output terminal beside a side edge of the organic resin substrate.

8. A photoelectric conversion cell comprising:  
an organic resin substrate having a front surface and a rear surface;

a first conductive film formed over the front surface of said substrate;  
a photoelectric conversion semiconductor layer formed on said first conductive film;  
a second conductive film formed over said photoelectric conversion semiconductor layer;  
first and second insulators formed through at least said conversion layer with a photoelectric conversion element defined therebetween;  
an output terminal formed on the rear surface of said substrate; and  
a conductive layer formed on the second conductive film and electrically connecting said second conductive film and said output terminal, wherein said conductive layer extends on one side edge of the organic resin substrate.

9. A photoelectric conversion device according to claim 8 wherein said first electrode is directly formed on said front surface of the substrate.

10. A photoelectric conversion device according to claim 8 wherein said substrate is flexible.

11. A photoelectric conversion device according to claim 8 wherein said photoelectric conversion semiconductor layer comprises silicon.